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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/518,444	12/20/2004	Wataru Matsumoto	2611-0228PUS1	7790	
2292 75	590 05/10/2006		EXAMINER		
BIRCH STEV PO BOX 747	VART KOLASCH &	RIZK, SAMIR WADIE			
	CH, VA 22040-0747	ART UNIT	PAPER NUMBER		
			2133		

DATE MAILED: 05/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	No.	Applicant(s)			
		10/518,444		MATSUMOTO, WATARU			
		Examiner		Art Unit			
		Sam Rizk		2133			
The MAILING DATE of this co	ommunication app	ears on the c	over sheet with the c	orrespondence address			
A SHORTENED STATUTORY PER WHICHEVER IS LONGER, FROM  - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date of  - If NO period for reply is specified above, the material period in the set or extended period Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1	THE MAILING DA provisions of 37 CFR 1.13 this communication. aximum statutory period v d for reply will, by statute e months after the mailing	ATE OF THIS 36(a). In no event will apply and will a c, cause the applica	S COMMUNICATION , however, may a reply be time expire SIX (6) MONTHS from ation to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status							
1) Responsive to communication							
2a) This action is <b>FINAL</b> .							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
closed in accordance with the	e practice under <i>E</i>	zx parte Qua	//e, 1935 C.D. 11, 40	33 O.G. 213.			
Disposition of Claims							
4) ⊠ Claim(s) <u>1-12</u> is/are pending 4a) Of the above claim(s) 5) □ Claim(s) is/are allowed 6) ⊠ Claim(s) <u>1-12</u> is/are rejected. 7) □ Claim(s) is/are objected 8) □ Claim(s) are subject to	is/are withdrawdd. ed to.	wn from cons					
Application Papers							
9) ☐ The specification is objected to 10) ☐ The drawing(s) filed on 20 De Applicant may not request that a Replacement drawing sheet(s) in 11) ☐ The oath or declaration is object.	ecember 2004 is/a any objection to the ncluding the correct	are: a) ☐ acc drawing(s) be tion is required	held in abeyance. See I if the drawing(s) is ob	e 37 CFR 1.85(a). ijected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing F  3) Information Disclosure Statement(s) (PTO Paper No(s)/Mail Date 12/20/2004.		1	Interview Summary Paper No(s)/Mail Do Notice of Informal F O Other:				

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### **DETAILED ACTIONS**

Claims 1-12 have been submitted for examination

- Claims 1-12 have been rejected

## Specification

1. The disclosure is objected to because of the following informalities:

"Caylay" is misspelled in several locations in page 11 and other locations. The correct spelling is "Cayley".

Appropriate correction is required.

## Claim Objections

2. Claim 7 is objected to because of the following informalities:

"Caylay" is misspelled in page 42, lines 17 and 24. The correct spelling is "Cayley".

Appropriate correction is required.

3. Same objection for claim 12, lines 7 and 13 as per claim 7.

"Caylay" is misspelled in page 42, line 24. The correct spelling is "Cayley".

Appropriate correction is required.

### **Drawings**

4. Figures 13-15 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be

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labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abevance.

## **Double Patenting**

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b). Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 5. Claims 1, 2 and 7 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 2 and 9 of copending Application No. 10/482,815. Although the conflicting claims are not identical they are not patentably distinct from each other because the claims of the instant application anticipate the claims of application 10/435,140.
- 6. Claims 11 and 12 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 9 and

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10 of copending Application No. 10/482,815. Although the conflicting claims are not identical they are not patentably distinct from each other because the claims of the instant application anticipate the claims of application 10/482,815.

"A Later patent claim is not patentably distinct from an earlier patent claim if the Later claim is obvious over, or anticipated by, the earlier claim. In re Longi, 759 F.2d at 896,225 USPQ at 651 (affirming a holding of obviousness-type double patenting because the claims at issue were obvious over claims in four prior ad patents), In re Bern, 140 F.3d at 1437, 46 USPQ2d at 1233 (Fed. Cir. 1998) (Affirming a holding of obviousness- type double patenting where a patent application claim to a genus is anticipated by a patent claim to a species within that genus). " ELI LILLY AND COMPANY v BARR LABORATORIES, INC., United States Court of Appeals for the Federal Circuit, ON PETITION FOR REHEARING EN BANC (DECIDED: May 30, 2001).

Examiner notes the claims 1, 2 and 9 citation of the copending Application No. 10/435,140 and this application claims 1, 2 and 7 are almost the same.

The copending application teaches every limitation in claims 1-8 and 10-13 of the application under examination.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

- 7. Claims 3-6 depend from claim 1.
- 8. Claims 8-9 depend from claim 7.

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### Conclusion

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- De Souza et al. US patent no. 6789227 teaches system and method for generating low density parity check codes using bit-filling
- Kurtas et al US publication no. 2002/0188906 method and coding apparatus using low density parity check codes for data transmission.
- Hassibi et al. US publication no. 2002/0163892 teaches Cayley encoding of unitary matrices for differential communication.
- Chen US patent 4862463 teaches error correcting code for 8-bit per chip memory with reduced redundancy.
- Jin et al. US patent no. 6961888 teaches methods and apparatus for encoding LDPC codes.
- Yang et al. US patent no. 6968491 teaches generating a check matrix for error correction.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sam Rizk whose telephone number is (571) 272-8191. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on (571) 272-3819. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronics Business Center (EBC) at 866-217-9197 (toll-free)

Sam Rizk, MSEE, ABD

Examiner

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GUY LAMARRE PRIMARY EXAMINER